IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): Rubber reinforced vinyl aromatic (co)polymers having a strictly bimodal morphology, consisting of from 55 to 90% by weight of rigid polymeric matrix and from 10 to 45% by weight of a rubbery phase dispersed inside said rigid polymeric matrix, in the form of grafted and occluded particles and wherein said rubber particles consist of from 60 to 99% by weight of particles with a capsule or "core-shell" morphology and from 1 to 40% by weight of particles with a "salami" morphology, said percentages being measured on the basis of the weight of the rubber particles only, wherein the difference between the solubility parameter according to Hildebrand of the elastomer which produces the "capsule" rubbery particles and the solubility parameter according to Hildebrand of the elastomer which produces the "salami" rubbery particles, is higher than or equal to 0.5.

Claim 2 (Original): The (co)polymers according to claim 1, wherein the core-shell particles have an average diameter ranging from 0.10 to 0.30 µm, whereas the "salami"-structured particles have an average diameter ranging from 1 to 5 µm.

Claim 3 (Currently Amended): The (co)polymers according to claim 1 or 2, wherein the elastomeric products capable of supplying a rubbery phase dispersed in the rigid polymeric matrix in the form of grafted and occluded particles with a capsule or "core-shell" morphology, are selected from homopolymers and copolymers of olefins or 1,3-alkadienes containing 40-100% by weight of 1,3-alkadiene monomer and 0-60% by weight of one or more mono-ethylenically unsaturated monomers.

Claim 4 (Original): The (co)polymers according to claim 3, wherein the elastomeric product is selected from linear diblock rubbers of the S-B type, wherein S represents a polystyrene block having an average molecular weight Mw between 5,000 and 80,000, whereas B represents a poly-butadiene block with an average molecular weight Mw between 2,000 and 250,000.

Claim 5 (Currently Amended): The (co)polymers according to claim 3 or 4, wherein the amount of S block ranges from 10 to 50% by weight with respect to the total S-B rubber.

Claim 6 (Original): The (co)polymers according to claim 5, wherein the elastomeric product is a styrene-butadiene block copolymer having a styrene content equal to 40% by weight and a viscosity in solution, measured at 23°C in a 5% by weight styrene solution, ranging from 35 to 50 cPs.

Claim 7 (Currently Amended): The (co)polymers according to claim 1 or 2, wherein the elastomeric products capable of providing a rubbery phase dispersed in the rigid polymeric matrix in the form of grafted and occluded particles with a "salami" morphology, are selected from homopolymers and copolymers of olefins or 1,3 alkadienes incompatible with the elastomeric products which provide the capsule rubbery phase.

Claim 8 (Original): The (co)polymers according to claim 7, wherein the elastomeric product is polyisoprene with a viscosity in solution, measured at 23°C in a 5% by weight styrene solution, ranging from 100 to 1000 cPs.

Claim 9 (Original): A mass-continuous process for the preparation of rubber-reinforced vinyl aromatic (co)polymers with a strictly bimodal morphology, consisting of from 55 to 90% by weight of rigid polymeric matrix and from 10 to 45% by weight of a rubbery phase dispersed inside said rigid polymeric matrix, in the form of grafted and occluded particles and wherein said rubber particles consist of from 60 to 99% by weight of particles with a capsule or "core-shell" morphology and from 1 to 40% by weight of particles with a "salami" morphology, said process comprising:

- a. dissolving from 3 to 20% by weight of a rubber selected from homopolymers and copolymers of 1,3-alkadienes containing 40-100% by weight of 1,3-alkadiene monomer and 0-60% by weight of one or more mono-ethylenically unsaturated monomers, having a solubility parameter (δ_1), and from 0.05 to 8.0% by weight of a rubber selected from homopolymers and copolymers of olefins or 1,3-alkadienes incompatible with the previous rubber, having a solubility parameter (δ_2) which is such that $\delta_1 \delta_2 \ge 0.5$, in a liquid essentially consisting of at least one vinyl aromatic monomer;
- b. polymerizing the resulting solution at a temperature ranging from 50 to 250°C optionally in the presence of polymerization initiators and/or chain transfer agents;
 - c. recovering the vinyl aromatic (co)polymer thus obtained.

Claim 10 (Original): A mass-suspension process for the preparation of rubber-reinforced vinyl aromatic (co)polymers having a strictly bimodal morphology, consisting of from 55 to 90% by weight of a rigid polymeric matrix and from 10 to 45% by weight of a rubbery phase dispersed inside said rigid polymeric matrix in the form of grafted and occluded particles, and wherein said rubber particles consist of from 60 to 99% by weight of

particles with a capsule or "core-shell" morphology and from 1 to 400 by weight of particles with a "salami" morphology, said process including:

- i) dissolving from 3 to 20% by weight of a rubber selected from homopolymers and copolymers of 1,3-alkadienes containing 40-100% by weight of 1,3-alkadiene monomer and 0-60% by weight of one or more mono-ethylenically unsaturated monomers, having the solubility parameter (δ_1), and from 0.05 to 8.0% by weight of a rubber selected from homopolymers and copolymers of olefins or 1,3-alkadienes incompatible with the previous rubber, having the solubility parameter (δ_2), which is such that $\delta_1 \delta_2 \ge 0.5$, in a liquid essentially consisting of at least one vinyl aromatic monomer;
- ii) pre-polymerizing the resulting solution at a temperature ranging from 50 to 250°C possibly in the presence of polymerization initiators and/or chain transfers, until phase inversion takes place;
- iii) completing the polymerization in aqueous phase in the presence of suspending agents.

Claim 11 (Currently Amended): The process according to claim 9 or 10 wherein the vinyl aromatic monomer is selected from those having general formula (I):

$$CR = CH_2$$
 $(Y)_n$
 (I)

wherein R is a hydrogen or a methyl group, n is zero or an integer ranging from 1 to 5 and Y is a halogen such as chlorine or bromine, or an alkyl or alkoxyl radical having from 1 to 4 carbon atoms.

Claim 12 (Currently Amended): The process according to claim 9, 10 or 11, wherein rubbers are dissolved in the monomers, possibly in the presence of an inert solvent in quantities ranging from 5 to 20% by weight with respect to the total.

Claim 13 (Currently Amended): The process according to <u>claim 12</u> any of the claims from 9 to 12, wherein the dissolution of the rubbers in the monomer blend and possible solvent is carried out in a mixer maintained at a temperature not higher than 100°C.

Claim 14 (Original): The process according to <u>claim 10</u> any of the previous claims from 9 to 13, wherein, during the (pre)polymerization reaction in solution, the reactors are maintained at a pressure ranging from 0.5 to 5 bar and a temperature of between 70 and 150°C, whereas during the polymerization reaction in suspension the temperature ranges from 100 to 170°C.

Claim 15 (Currently Amended): The process according to <u>claim 9</u> any of the previous elaims from 9 to 14, wherein the initiators are added in quantities ranging from 0.005 to 0.5% by weight with respect to the monomer.

Claim 16 (Currently Amended): The process according to <u>claim 9</u> any of the previous elaims from 9 to 15, wherein the chain transfer agents are added in quantities ranging from 0.005 to 0.5% by weight with respect to the monomer.